

FILE 'HOME' ENTERED AT 11:09:24 ON 22 AUG 2003

=> file medline

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'MEDLINE' ENTERED AT 11:09:33 ON 22 AUG 2003

FILE LAST UPDATED: 21 AUG 2003 (20030821/UP). FILE COVERS 1958 TO DATE.

On April 13, 2003, MEDLINE was reloaded. See HELP RLOAD for details.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2003 vocabulary. See <http://www.nlm.nih.gov/mesh/changes2003.html> for a description on changes.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s (Kobilka, B.? or Kobilka B.?)/au

94 KOBILKA, B.?/AU

94 KOBILKA B.?/AU

L1 94 (KOBILKA, B.? OR KOBILKA B.?)/AU

=> s (Ghanouni, P.? or Ghanouni P.?)/au

0 GHANOUNI, P.?/AU

0 GHANOUNI P.?/AU

L2 0 (GHANOUNI, P.? OR GHANOUNI P.?)/AU

=> s (Lee, T.? or Lee T.?)/au

3387 LEE, T.?/AU

3387 LEE T.?/AU

L3 3387 (LEE, T.? OR LEE T.?)/AU

=> s conformational assay?

45173 CONFORMATIONAL

441610 ASSAY?

L4 0 CONFORMATIONAL ASSAY?

(CONFORMATIONAL(W)ASSAY?)

=> s agonist (p) detectable label (p) adrenergic receptor

78490 AGONIST

85338 AGONISTS

129610 AGONIST

(AGONIST OR AGONISTS)

97614 DETECTABLE

8 DETECTABLES

97616 DETECTABLE

(DETECTABLE OR DETECTABLES)

31662 LABEL

17185 LABELS

45222 LABEL

(LABEL OR LABELS)

20 DETECTABLE LABEL

(DETECTABLE(W)LABEL)

99604 ADRENERGIC

87 ADRENERGICS

99641 ADRENERGIC

(ADRENERGIC OR ADRENERGICS)

430786 RECEPTOR

469934 RECEPTORS

```

609756 RECEPTOR
      (RECEPTOR OR RECEPTORS)
17546 ADRENERGIC RECEPTOR
      (ADRENERGIC(W) RECEPTOR)
L5      0 AGONIST (P) DETECTABLE LABEL (P) ADRENERGIC RECEPTOR

```

```

=> s agonist (p) detectable label
      78490 AGONIST
      85338 AGONISTS
      129610 AGONIST
            (AGONIST OR AGONISTS)
      97614 DETECTABLE
            8 DETECTABLES
      97616 DETECTABLE
            (DETECTABLE OR DETECTABLES)
      31662 LABEL
      17185 LABELS
      45222 LABEL
            (LABEL OR LABELS)
            20 DETECTABLE LABEL
            (DETECTABLE(W) LABEL)
L6      0 AGONIST (P) DETECTABLE LABEL

```

```

=> adrenergic receptor
ADRENERGIC IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

```

```

=> s adrenergic receptor
      99604 ADRENERGIC
      87 ADRENERGICS
      99641 ADRENERGIC
            (ADRENERGIC OR ADRENERGICS)
      430786 RECEPTOR
      469934 RECEPTORS
      609756 RECEPTOR
            (RECEPTOR OR RECEPTORS)
L7      17546 ADRENERGIC RECEPTOR
            (ADRENERGIC(W) RECEPTOR)

```

```

=> s agonist?
L8      132983 AGONIST?

```

```

=> s L7 and L8
L9      6716 L7 AND L8

```

```

=> s fluorescence label
      140341 FLUORESCENCE
      108 FLUORESCENCES
      140377 FLUORESCENCE
            (FLUORESCENCE OR FLUORESCENCES)
      31662 LABEL
      17185 LABELS
      45222 LABEL
            (LABEL OR LABELS)
L10     73 FLUORESCENCE LABEL
            (FLUORESCENCE(W) LABEL)

```

```

=> s L7 and L10
L11     0 L7 AND L10

```

```

=> s adrenoceptor?

```

L12 24631 ADRENOCEPTOR?

=> s L10 and L12

L13 0 L10 AND L12

=> d his

(FILE 'HOME' ENTERED AT 11:09:24 ON 22 AUG 2003)

FILE 'MEDLINE' ENTERED AT 11:09:33 ON 22 AUG 2003

L1 94 S (KOBILKA, B.? OR KOBILKA B.?)/AU
L2 0 S (GHANOUNI, P.? OR GHANOUNI P.?)/AU
L3 3387 S (LEE, T.? OR LEE T.?)/AU
L4 0 S CONFORMATIONAL ASSAY?
L5 0 S AGONIST (P) DETECTABLE LABEL (P) ADRENERGIC RECEPTOR
L6 0 S AGONIST (P) DETECTABLE LABEL
L7 17546 S ADRENERGIC RECEPTOR
L8 132983 S AGONIST?
L9 6716 S L7 AND L8
L10 73 S FLUORESCENCE LABEL
L11 0 S L7 AND L10
L12 24631 S ADRENOCEPTOR?
L13 0 S L10 AND L12

=> s L1 and L12

L14 20 L1 AND L12

=> s L8 and L14

L15 16 L8 AND L14

=> d L15 1-16

L15 ANSWER 1 OF 16 MEDLINE on STN
AN 2001264670 MEDLINE
DN 21255965 PubMed ID: 11356949
TI Functional differences between full and partial **agonists**:
evidence for ligand-specific receptor conformations.
AU Seifert R; Wenzel-Seifert K; Gether U; **Kobilka B K**
CS Howard Hughes Medical Institute, Stanford University Medical School,
Stanford, California, USA.
SO JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, (2001 Jun) 297 (3)
1218-26.
Journal code: 0376362. ISSN: 0022-3565.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 200106
ED Entered STN: 20010618
Last Updated on STN: 20010618
Entered Medline: 20010614

L15 ANSWER 2 OF 16 MEDLINE on STN
AN 2001124396 MEDLINE
DN 20574867 PubMed ID: 11125002
TI Antinociceptive action of nitrous oxide is mediated by stimulation of
noradrenergic neurons in the brainstem and activation of [alpha]2B
adrenoceptors.
AU Sawamura S; Kingery W S; Davies M F; Agashe G S; Clark J D; **Kobilka B**
K; Hashimoto T; Maze M
CS Department of Anesthesia, Stanford University School of Medicine,
Stanford, California 94305, USA.
NC GM30232 (NIGMS)

SO JOURNAL OF NEUROSCIENCE, (2000 Dec 15) 20 (24) 9242-51.

Journal code: 8102140. ISSN: 1529-2401.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200102

ED Entered STN: 20010322

Last Updated on STN: 20010521

Entered Medline: 20010222

L15 ANSWER 3 OF 16 MEDLINE on STN

AN 2001018259 MEDLINE

DN 20495177 PubMed ID: 11040034

TI Spontaneous activation of beta(2)- but not beta(1)-**adrenoceptors** expressed in cardiac myocytes from beta(1)beta(2) double knockout mice.

AU Zhou Y Y; Yang D; Zhu W Z; Zhang S J; Wang D J; Rohrer D K; Devic E;

Kobilka B K; Lakatta E G; Cheng H; Xiao R P

CS Laboratory of Cardiovascular Science, Gerontology Research Center, National Institute on Aging, National Institutes of Health, Baltimore, Maryland, USA.

SO MOLECULAR PHARMACOLOGY, (2000 Nov) 58 (5) 887-94.,

Journal code: 0035623. ISSN: 0026-895X.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200011

ED Entered STN: 20010322

Last Updated on STN: 20010322

Entered Medline: 20001109

L15 ANSWER 4 OF 16 MEDLINE on STN

AN 2000119262 MEDLINE

DN 20119262 PubMed ID: 10652295

TI The effect of pH on beta(2) **adrenoceptor** function. Evidence for protonation-dependent activation.

AU Ghanouni P; Schambye H; Seifert R; Lee T W; Rasmussen S G; Gether U;

Kobilka B K

CS Howard Hughes Medical Institute, Stanford University Medical School, Stanford, California 94305-5428, USA.

NC 5T32GM07365 (NIGMS)

NS28471 (NINDS)

SO JOURNAL OF BIOLOGICAL CHEMISTRY, (2000 Feb 4) 275 (5) 3121-7.

Journal code: 2985121R. ISSN: 0021-9258.

CY United States

DT Journal; Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 200003

ED Entered STN: 20000314

Last Updated on STN: 20000314

Entered Medline: 20000302

L15 ANSWER 5 OF 16 MEDLINE on STN

AN 1999458693 MEDLINE

DN 99458693 PubMed ID: 10529225

TI Restricting the mobility of Gs alpha: impact on receptor and effector coupling.

AU Lee T W; Seifert R; Guan X; **Kobilka B K**

CS Howard Hughes Medical Institute, Division of Cardiovascular Medicine, Stanford University Medical School, California 94305-5345, USA.

SO BIOCHEMISTRY, (1999 Oct 19) 38 (42) 13801-9.

Journal code: 0370623. ISSN: 0006-2960.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199911
ED Entered STN: 20000111
Last Updated on STN: 20000111
Entered Medline: 19991124

L15 ANSWER 6 OF 16 MEDLINE on STN
AN 1999344413 MEDLINE
DN 99344413 PubMed ID: 10415924
TI Gene substitution/knockout to delineate the role of alpha 2-
adrenoceptor subtypes in mediating central effects of
catecholamines and imidazolines.
AU Hein L; Limbird L E; Eglen R M; **Kobilka B K**
CS Department of Pharmacology, University of Wurzburg, Germany..
hein@toxi.uni-wuerzburg.de
SO ANNALS OF THE NEW YORK ACADEMY OF SCIENCES, (1999 Jun 21) 881 265-71.
Journal code: 7506858. ISSN: 0077-8923.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199908
ED Entered STN: 19990820
Last Updated on STN: 19990820
Entered Medline: 19990810

L15 ANSWER 7 OF 16 MEDLINE on STN
AN 1999203460 MEDLINE
DN 99203460 PubMed ID: 10102993
TI Examining the efficiency of receptor/G-protein coupling with a cleavable
beta2-**adrenoceptor**-gsalpha fusion protein.
AU Seifert R; Wenzel-Seifert K; Gether U; Lam V T; **Kobilka B K**
CS Howard Hughes Medical Institute, Stanford University Medical, California,
USA.
SO EUROPEAN JOURNAL OF BIOCHEMISTRY, (1999 Mar) 260 (3) 661-6.
Journal code: 0107600. ISSN: 0014-2956.
CY GERMANY: Germany, Federal Republic of
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199905
ED Entered STN: 19990517
Last Updated on STN: 20000303
Entered Medline: 19990506

L15 ANSWER 8 OF 16 MEDLINE on STN
AN 1998401049 MEDLINE
DN 98401049 PubMed ID: 9730916
TI Alpha2C-**adrenoceptor**-overexpressing mice are impaired in
executing nonspatial and spatial escape strategies.
AU Bjorklund M; Sirvio J; Puolivali J; Sallinen J; Jakala P; Scheinin M;
Kobilka B K; Riekkinen P Jr
CS Department of Neurology and Neuroscience, University of Kuopio, Kuopio,
FIN-70211, Finland.
SO MOLECULAR PHARMACOLOGY, (1998 Sep) 54 (3) 569-76.
Journal code: 0035623. ISSN: 0026-895X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English

FS Priority Journals
EM 199810
ED Entered STN: 19981020
Last Updated on STN: 20000303
Entered Medline: 19981005

L15 ANSWER 9 OF 16 MEDLINE on STN
AN 1998399813 MEDLINE
DN 98399813 PubMed ID: 9729456
TI Restricting mobility of Gsalpha relative to the beta2-**adrenoceptor** enhances adenylate cyclase activity by reducing Gsalpha GTPase activity.
AU Wenzel-Seifert K; Lee T W; Seifert R; **Kobilka B K**
CS Howard Hughes Medical Institute, B-157, Beckman Center, Stanford University Medical School, CA 94305-5428, USA.
SO BIOCHEMICAL JOURNAL, (1998 Sep 15) 334 (Pt 3) 519-24.
Journal code: 2984726R. ISSN: 0264-6021.
CY ENGLAND: United Kingdom
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199811
ED Entered STN: 19990106
Last Updated on STN: 20000303
Entered Medline: 19981123

L15 ANSWER 10 OF 16 MEDLINE on STN
AN 1998380235 MEDLINE
DN 98380235 PubMed ID: 9716378
TI Reconstitution of beta2-**adrenoceptor**-GTP-binding-protein interaction in Sf9 cells--high coupling efficiency in a beta2-**adrenoceptor**-G(s alpha) fusion protein.
AU Seifert R; Lee T W; Lam V T; **Kobilka B K**
CS Howard Hughes Medical Institute, Stanford University Medical School, California 94305-5428, USA.
SO EUROPEAN JOURNAL OF BIOCHEMISTRY, (1998 Jul 15) 255 (2) 369-82.
Journal code: 0107600. ISSN: 0014-2956.
CY GERMANY: Germany, Federal Republic of
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199809
ED Entered STN: 19980917
Last Updated on STN: 20000303
Entered Medline: 19980909

L15 ANSWER 11 OF 16 MEDLINE on STN
AN 1998355480 MEDLINE
DN 98355480 PubMed ID: 9692731
TI D-amphetamine and L-5-hydroxytryptophan-induced behaviours in mice with genetically-altered expression of the alpha2C-adrenergic receptor subtype.
AU Sallinen J; Haapalinna A; Viitamaa T; **Kobilka B K**; Scheinin M
CS Department of Pharmacology and Clinical Pharmacology, University of Turku, Finland.
SO NEUROSCIENCE, (1998 Oct) 86 (3) 959-65.
Journal code: 7605074. ISSN: 0306-4522.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199810
ED Entered STN: 19990106
Last Updated on STN: 20000303
Entered Medline: 19981029

L15 ANSWER 12 OF 16 MEDLINE on STN
 AN 1998195368 MEDLINE
 DN 98195368 PubMed ID: 9526020
 TI Adrenergic alpha2C-receptors modulate the acoustic startle reflex, prepulse inhibition, and aggression in mice.
 AU Sallinen J; Haapalinna A; Viitamaa T; **Kobilka B K**; Scheinin M
 CS Department of Pharmacology and Clinical Pharmacology, University of Turku, FIN-20520 Turku, Finland.
 SO JOURNAL OF NEUROSCIENCE, (1998 Apr 15) 18 (8) 3035-42.
 Journal code: 8102140. ISSN: 0270-6474.
 CY United States
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199804
 ED Entered STN: 19980430
 Last Updated on STN: 20000303
 Entered Medline: 19980420

L15 ANSWER 13 OF 16 MEDLINE on STN
 AN 1998031901 MEDLINE
 DN 98031901 PubMed ID: 9362488
 TI **Agonists** induce conformational changes in transmembrane domains III and VI of the beta2 **adrenoceptor**.
 AU Gether U; Lin S; Ghanouni P; Ballesteros J A; Weinstein H; **Kobilka B K**
 CS Howard Hughes Medical Institute, Stanford University Medical School, Stanford, CA 94305, USA... gether@mfi.ku.dk
 NC DA-00060 (NIDA)
 DA-09083 (NIDA)
 RO 1 NS28471 (NINDS)
 +
 SO EMBO JOURNAL, (1997 Nov 17) 16 (22) 6737-47.
 Journal code: 8208664. ISSN: 0261-4189.
 CY ENGLAND: United Kingdom
 DT Journal; Article; (JOURNAL ARTICLE)
 LA English
 FS Priority Journals
 EM 199801
 ED Entered STN: 19980122
 Last Updated on STN: 20000303
 Entered Medline: 19980105

L15 ANSWER 14 OF 16 MEDLINE on STN
 AN 97370714 MEDLINE
 DN 97370714 PubMed ID: 9227000
 TI Gene targeting--homing in on alpha 2-**adrenoceptor**-subtype function.
 AU MacDonald E; **Kobilka B K**; Scheinin M
 CS Department of Pharmacology and Toxicology, Universit of Kuopio, Finland.
 SO TRENDS IN PHARMACOLOGICAL SCIENCES, (1997 Jun) 18 (6) 211-9. Ref: 48
 Journal code: 7906158. ISSN: 0165-6147.
 CY ENGLAND: United Kingdom
 DT Journal; Article; (JOURNAL ARTICLE)
 General Review; (REVIEW)
 (REVIEW, TUTORIAL)
 LA English
 FS Priority Journals
 OS GENBANK-L09064
 EM 199709
 ED Entered STN: 19970926
 Last Updated on STN: 19970926

Entered Medline: 19970915

L15 ANSWER 15 OF 16 MEDLINE on STN
AN 97168751 MEDLINE
DN 97168751 PubMed ID: 9016344
TI Genetic alteration of alpha 2C-**adrenoceptor** expression in mice:
influence on locomotor, hypothermic, and neurochemical effects of
dexmedetomidine, a subtype-nonselective alpha 2-**adrenoceptor**
agonist.
AU Sallinen J; Link R E; Haapalinna A; Viitamaa T; Kulatunga M; Sjöholm B;
Macdonald E; Pelto-Huikko M; Leino T; Barsh G S; **Kobilka B K**;
Scheinin M
CS Department of Pharmacology and Clinical Pharmacology, University of Turku,
Finland.
SO MOLECULAR PHARMACOLOGY, (1997 Jan) 51 (1) 36-46.
Journal code: 0035623. ISSN: 0026-895X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199702
ED Entered STN: 19970306
Last Updated on STN: 20000303
Entered Medline: 19970227

L15 ANSWER 16 OF 16 MEDLINE on STN
AN 95349542 MEDLINE
DN 95349542 PubMed ID: 7623774
TI Targeted inactivation of the gene encoding the mouse alpha 2c-
adrenoceptor homolog.
AU Link R E; Stevens M S; Kulatunga M; Scheinin M; Barsh G S; **Kobilka B K**
K
CS Department of Molecular and Cellular Physiology, Stanford University,
California 94305, USA.
NC 5T32-GM07365 (NIGMS)
HL48638 (NHLBI)
SO MOLECULAR PHARMACOLOGY, (1995 Jul) 48 (1) 48-55.
Journal code: 0035623. ISSN: 0026-895X.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199508
ED Entered STN: 19950911
Last Updated on STN: 19950911
Entered Medline: 19950830

L Number	Hits	Search Text	DB	Time stamp
1	3	(Brain near Kobilka.in.) or (Pejman near Ghan) or (Tae near Weon near Lee.in.)	USPAT; US-PGPUB; EPO	2003/08/22 10:47
12	0	agonist? same conformational adj1 assay	USPAT; US-PGPUB; EPO	2003/08/22 10:52
13	2	conformational adj1 assay	USPAT; US-PGPUB; EPO	2003/08/22 10:53
14	2	conformational adj1 assay?	USPAT; US-PGPUB; EPO	2003/08/22 10:53
15	430	agonist? and adrenoceptor?	USPAT; US-PGPUB; EPO	2003/08/22 10:55
16	2786	detectable adj1 label?	USPAT; US-PGPUB; EPO	2003/08/22 11:02
19	0	(agonist? and adrenoceptor?) and (detectable adj1 label?)	USPAT	2003/08/22 11:04
20	2	(agonist? and adrenoceptor?) and (detectable adj1 label?)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/08/22 11:04

	U	1	Document ID	Issue Date	Pages	Title	Current OR
1	<input type="checkbox"/>	<input type="checkbox"/>	US 20030129649 A1	20030710	39	Conformational assays to detect binding to G protein-coupled receptors	435/7.1
2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 6448377 B1	20020910	38	Modified G protein subunits	530/350
3	<input type="checkbox"/>	<input type="checkbox"/>	WO 2086507 A1	20021031	104	CONFORMATIONAL ASSAYS TO DETECT BINDING TO MEMBRANE SPANNING, SIGNAL-TRANSDUCING PROTEINS	

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1	435/287.2; 435/7.2		Kobilka, Brian K. et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	435/7.1		Kobilka, Brian et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3			KOBILKA, BRIAN K et al.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Image Doc. Displayed	PT
1	US 20030129649	<input type="checkbox"/>
2	US 6448377	<input type="checkbox"/>
3	WO 2086507 A1	<input type="checkbox"/>

	U	1	Document ID	Issue Date	Pages	Title	Current OR
1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	US 20030129649 A1	20030710	39	Conformational assays to detect binding to G protein-coupled receptors	435/7.1
2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	WO 2086507 A1	20021031	104	CONFORMATIONAL ASSAYS TO DETECT BINDING TO MEMBRANE SPANNING, SIGNAL-TRANSDUCING PROTEINS	

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1	435/287.2; 435/7.2		Kobilka, Brian K. et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2			KOBILKA, BRIAN K et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Image Doc. Displayed	PT
1	US 20030129649	<input type="checkbox"/>
2	WO 2086507 A1	<input type="checkbox"/>